



U.S. DEPARTMENT OF  
**ENERGY**

Energy Efficiency &  
Renewable Energy



# DOE Update: Health & Safety Guidance and Perspectives on Leveraging

Shawn D. Green, DOE

MN 2016 State Energy Conference  
May 18-20, 2016

# Learning Objectives

---

## By attending this session, participants will be able to:

- High-level overview of changes within new H&S guidance
- Examples of successful leveraging of non-DOE resources
- Policy updates
  - DOE Structure/Leadership Update
  - Updates to the SWS
  - MulTEA and H&S Audit Tool
  - DOE WAP Looking Forward

## Health & Safety Updates

# Health & Safety (H&S) Updates

---

## Common misperceptions about H&S guidance:

- Grantees must follow DOE guidance requirements to the letter.
- There is a Federal cap on H&S budgets.
  - 15% of Program Operations is simply a review threshold, not a cap.
- ASHRAE 62.2 is an optional measure.
  - This is a Program requirement and cause for deferral if not performed.

# Health & Safety (H&S) Updates

---

## Reasons for Updated H&S guidance:

- Feedback from the network from the implementation of WPN 11-6 and WPN 11-6a.
- WAP National Evaluation Report, *“Weatherization and Indoor Air Quality - Measured Impacts in Single-family Homes under the Weatherization Assistance Program.”*

# Health & Safety (H&S) Updates

---

## Consolidation of multiple pieces of previous guidance:

- WPN 11-6a (Supplemental Health and Safety Guidance)
- WPN 11-6 (Health and Safety Guidance)
- WPN 09-6 (Lead Safe Weatherization (LSW) Additional M&I)
- WPN 08-6 (Interim Lead Safe Weatherization Guidance)
- WPN 08-4 (Space Heater Policy)
- WPN 02-6 (Weatherization Activities and Federal LBP Regs)
- WPN 02-5 (Health and Safety Guidance)

# Health & Safety (H&S) Updates

---

## All H&S Plans Must Include:

- A deferral / referral policy.
- Process for implementing and verifying worker compliance with safe work practices (RRP, OSHA, etc.) with in-progress monitoring.
- The results of this in-progress monitoring must be made available to DOE upon request.
- Procedures for dealing with measure skipping.

# Health & Safety (H&S) Updates

## Prescribed Hazards Updates:

- Expansion and clarification on various hazard protocols (ex. more explicit training requirements).
- Consolidation of some hazards (ex. water heaters, drainage) into other prescribed hazards (ex. Mold and Moisture).
- Consolidation of information common to several prescribed hazards (ex. Hazardous Materials Disposal)
- Addition of some prescribed hazards (ex. Fuel Leaks, Mercury).
- Elimination of LSW (must still conform to RRP).
- Some hazards now required **informed consent** (ex. radon).



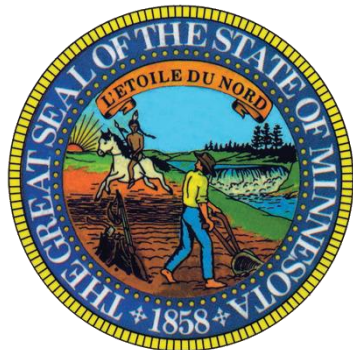
## Leveraging of non-DOE Resources

# Leveraged Resources – Potential Sources

Funding for WAP can come from several sources:



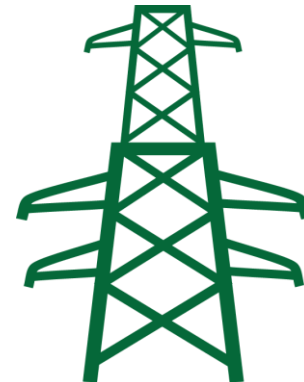
FEDERAL APPROPRIATED  
FUNDS



STATE APPROPRIATED  
FUNDS



LIHEAP FUNDS



UTILITY FUNDS

# Leveraged Resources

- Leveraged funds included in the DOE WAP budget must meet [all](#) rules and guidance applicable to DOE WAP funds.
- Leveraged funds that are not included in the DOE WAP budget may be used for weatherization activities in parallel to the DOE award; in this case, Grantees have more flexibility.
- Grantees may choose to include some leveraged funding sources that do not provide for administrative activities to receive additional DOE WAP administration funds.

# Leveraged Resources – LIHEAP Funds

## If LIHEAP WAP funds are available:

Grantee may elect to include LIHEAP WAP funds in the DOE WAP budget for the purpose of weatherizing homes in accordance with DOE/WAP rules.



*(Caution – proceed with care to determine whether additional DOE administrative funds are allowed!)*

## OR....

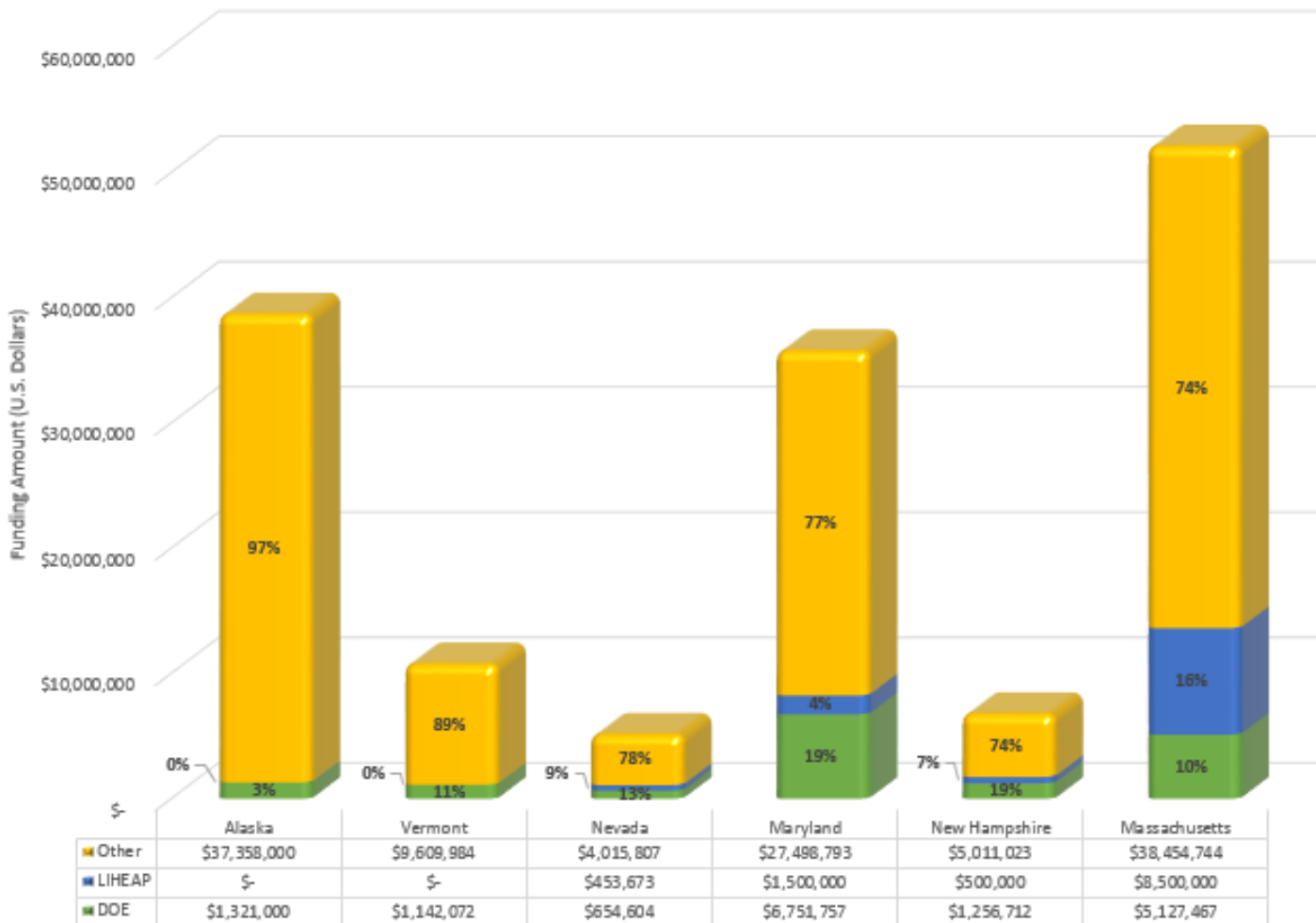
Grantee may use LIHEAP WAP funds in parallel with DOE/WAP, wherein the funding dollars would not have the same restrictions.

# Leveraged Resources – Program Income

- Program Income:
  - Interest is not considered Program income.
  - Should be treated as an addition to program funds.
  - Is subject to the same rules as appropriated funds.
  - MUST be expended prior to DOE funds.
- The Program must be reimbursed for vehicles and equipment used for non-DOE weatherization purposes.
- Landlord contributions are not considered program income.
- Leveraged resources (e.g. utility programs) are not considered program income.

# Leveraged Resources

Top 5 Grantees with Leveraged Funds (as a % of Total Funding)



## DOE Policy Updates

# DOE Policy Update – Leadership

---

## DOE Structure/Leadership Update:

- Individual has been selected for WAP Program Manager Position
- Anticipated start date is June 1, 2016.



# DOE Policy Updates – SWS

## SWS Commenting Process:

- Must create an account online at <http://sws.nrel.gov>
- Comments submitted directly into online tool.
- Comments reviewed by NREL monthly for any life-safety issues.
- Annually, comments are categorized (H&S, Air Sealing, etc.) and reviewed by SWS Maintenance Committees.
- Every submitted comment is adjudicated and a determination made if it will be *accepted*, *accepted with modification*, or *rejected*.
- Draft updated language and reasoning for the determination.

# DOE Policy Updates – SWS

## SWS Commenting Process:

- The updates made on the annual basis will be released as a static redline document on the maintenance page of the SWS.
- Every three years, all the static updates will be incorporated into the SWS online tool and officially become the revised SWS.
- The three year update cycle is set to match the field guide update schedule.

# DOE Policy Updates – SWS

## SWS Commenting Process – Home Page:

The screenshot shows the NREL Standard Work Specifications Tool home page. The browser address bar displays <https://sws.nrel.gov>. The NREL logo is in the top left, and the navigation menu includes Home, About, Help, **My Account** (circled in orange), and Sign In. A search bar is located below the navigation menu. The main content area features a large banner titled "Standard Work Specifications for Home Energy Upgrades" with a background image of a house. Below the banner, there are three columns of content: "Guidelines for Home Energy Professionals Project Resources" with links to "Find Accredited Training", "Get Certified", and "Meet the Quality Work Plan"; "News & Updates" with a date of February 17, 2016 and a link to "Call for Applications: Quality Control Inspector Practitioners and Experts"; and "How To Video" with a link to "How to use the Standard Work Specifications (SWS) Online Tool". The Windows taskbar is visible at the bottom, showing various application icons and the system clock at 12:45 PM on 5/18/2016.

# DOE Policy Updates – SWS

## SWS Commenting Process – My Account:

Log in | Standard Work Specifications Tool

https://sws.nrel.gov/user/login?destination=home

Vacancy Announcements | Travel Forms | 10 CFR 440 | 10 CFR 600 | 2 CFR 910 | Standard Work Specifications | WAP WPNs | BPI Certified Individuals | Data Universe | HUD Multifamily Listings

**NREL**  
NATIONAL RENEWABLE ENERGY LABORATORY

Standard Work Specifications Tool

Home | About | Help | My Account | Sign In

Search All Topics [Go]

Health & Safety | Air Sealing | Insulation | Heating & Cooling | Ventilation | Baseload

E-mail \*

Password \*

[Log In](#) or [Create an Account](#)

[Forgot Your Password?](#)

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

# DOE Policy Updates – SWS

## SWS Commenting Process – Account Setup:

My Account | Standard Work Specifications Tool

https://sws.nrel.gov/user/register?destination=home

Vacancy Announcements | Travel Forms | 10 CFR 440 | 10 CFR 600 | 2 CFR 910 | Standard Work Specifications | WAP WPNS | BPI Certified Individuals | Data Universe | HUD Multifamily Listings

Home | About | Help | My Account | Sign In

Search All Topics [Go]

Health & Safety | Air Sealing | Insulation | Heating & Cooling | Ventilation | Baseload

### Why Sign Up?

Once you create an account, you can create customized lists of specifications that will allow you to:

- Generate scopes of work
- Create checklists for quality control inspections and energy audits
- Share favorites with print, email, and copy-to-Excel functionality
- Make a comment on the Standard Work Specifications
- Request the ability to create customized field guides

All registration information is kept private, however we will send you periodic project updates. You will always have the option to opt-out of the project communications.

### Subscribe

Account Settings \* | My Profile

**E-mail \***

**Verification \***

Type the characters you see in the picture; if you can't read them, click the icon and a new image will be generated. Not case sensitive. [Switch to audio verification.](#)

Create New Account or Sign In

# DOE Policy Updates – SWS

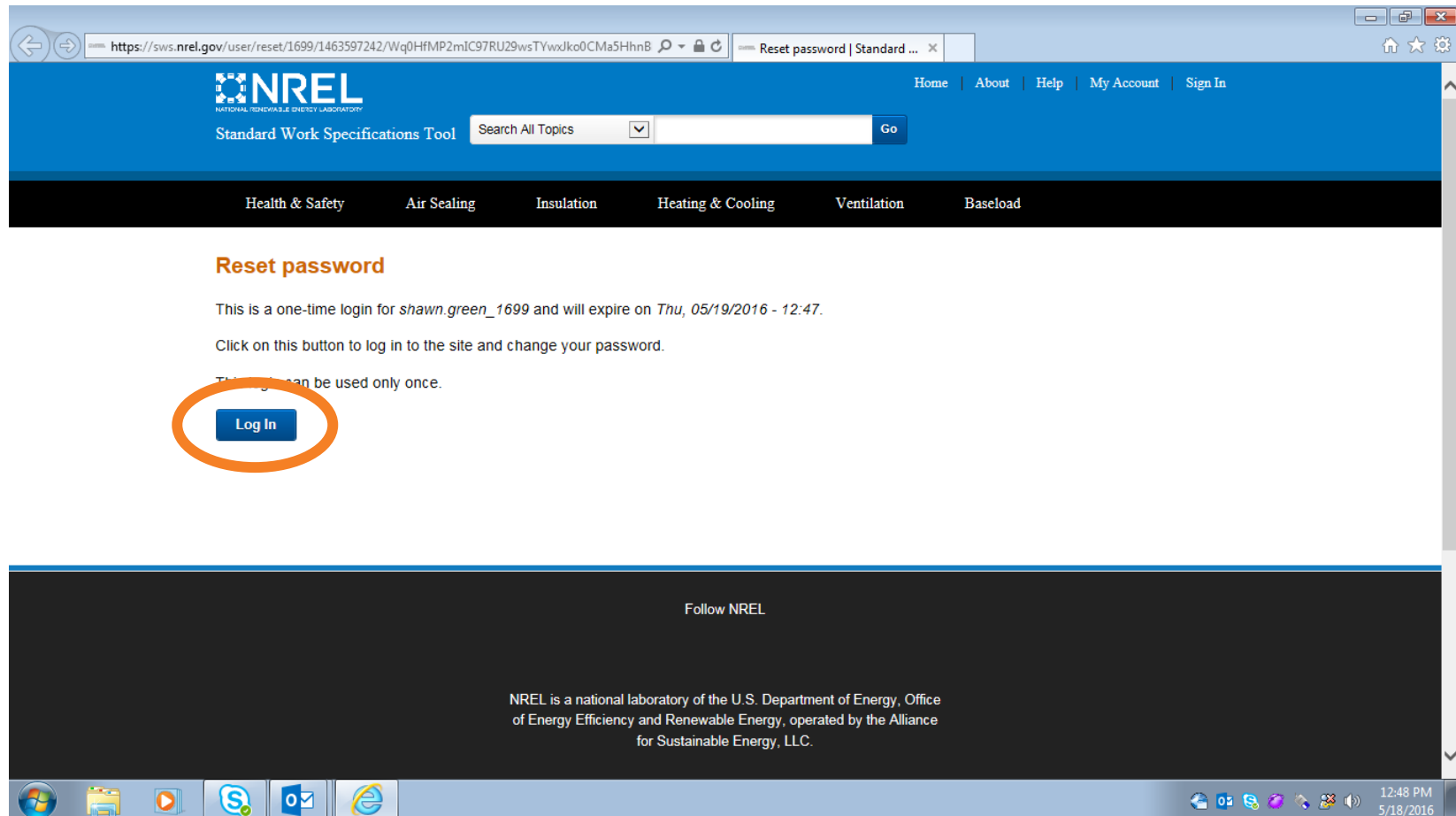
## SWS Commenting Process – Email Notification:

The screenshot shows the NREL Standard Work Specifications Tool website. The browser address bar displays <https://sws.nrel.gov/home>. The NREL logo and "Standard Work Specifications Tool" are at the top. A navigation bar includes links for Home, About, Help, My Account, and Sign In. Below this is a search bar labeled "Search All Topics" with a "Go" button. A secondary navigation bar lists categories: Health & Safety, Air Sealing, Insulation, Heating & Cooling, Ventilation, and Baseload. A green notification box with a checkmark icon and the text "A welcome message with further instructions has been sent to your e-mail address." is highlighted with an orange border. The main content area features the title "Standard Work Specifications for Home Energy Upgrades" and a paragraph explaining that SWS are a major component of the Guidelines for Home Energy Professionals project. To the right of the text are two call-to-action boxes: "Learn how to use this tool" with a wrench icon and "Read an introduction to the Standard Work Specifications" with a book icon. At the bottom, there are three sections: "Guidelines for Home Energy Professionals Project Resources" with a link to "Find Accredited Training", "News & Updates" dated February 17, 2016, and "How To Video" with a link to "How to use the Standard Work Specifications". The Windows taskbar at the bottom shows various application icons and the system clock indicating 12:47 PM on 5/18/2016.



# DOE Policy Updates – SWS

## SWS Commenting Process – One-Time Link:



# DOE Policy Updates – SWS

## SWS Commenting Process – Password Reset:

The screenshot shows a web browser window with the URL `https://sws.nrel.gov/user/1699/edit?pass-reset-token=LfxvuGC642Z4PW3D6UoIsPU0jTf_JWhf26R...`. The page header includes the NREL logo and navigation links: Home, About, Help, My Account, and Log out. Below the header is a search bar labeled "Standard Work Specifications Tool" with a "Go" button. A navigation menu at the bottom lists categories: Health & Safety, Air Sealing, Insulation, Heating & Cooling, Ventilation, and Baseload.

The user is logged in as **shawn.green\_1699**. A green notification box with a checkmark icon states: "You have just used your one-time login link. It is no longer necessary to use this link to log in. Please change your password." Below this, the "Manage Your Account Settings" section is visible, with tabs for "Account Settings", "My Profile", and "Email Preferences". The "Account Settings" tab is active, showing the "E-mail address" field with the value `shawn.green@ee.doe.gov`. Below this, the "Password" and "Confirm password" fields are highlighted with an orange oval. A "Password strength" indicator is also present. A "Save" button is located at the bottom of the form.

The Windows taskbar at the bottom shows the time as 12:49 PM on 5/18/2016.



# DOE Policy Updates – SWS

## SWS Commenting Process – Reset Successful:

The screenshot shows a web browser window with the URL `https://sws.nrel.gov/user/1699/edit?pass-reset-token=LfxvuGC64Z24PW3D6UoIsPU0jTf_JWhf26R...`. The page header includes the NREL logo and navigation links: Home, About, Help, My Account, and Log out. Below the header is a search bar labeled "Search All Topics" with a "Go" button. A navigation bar lists categories: Health & Safety, Air Sealing, Insulation, Heating & Cooling, Ventilation, and Baseload. The main content area shows the user profile for "shawn.green\_1699". A green notification box with a checkmark icon and the text "The changes have been saved." is highlighted with an orange border. Below this, the "Account Settings" tab is active, showing fields for "Current password", "E-mail address" (shawn.green@ee.doe.gov), "Password", and "Confirm password". A "Password strength" indicator is also present. At the bottom, a note states: "To change the current user password, enter the new password in both fields."

shawn.green\_1699

✓ The changes have been saved.

**Account Settings \*** My Profile Email Preferences

**Current password**

Enter your current password to change your E-mail address or Password. If you do not remember your password, please request a new [password](#).

**E-mail address \***

shawn.green@ee.doe.gov

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

**Password** Password strength: \_\_\_\_\_

**Confirm password**

To change the current user password, enter the new password in both fields.

# DOE Policy Updates – SWS

## SWS Commenting Process – Comment Box:

The screenshot shows a web browser window with the URL <https://sws.nrel.gov/spec/660031>. The page has a navigation bar with categories: Health & Safety, Air Sealing, Insulation, Heating & Cooling, Ventilation, and Baseload. The left sidebar shows a tree view of specifications, with '6.60: Exhaust' expanded and 'Fans' selected. The main content area is titled '6.6003.1 Surface-Mounted Ducted' and includes a 'View' button, 'Topic: Exhaust', 'Subtopic: Fans', and 'Desired Outcome: Surface-mounted ducted fans installed to specification'. A 'Note' states that a licensed professional may be required. Links for 'Referenced Standards' and 'Calculation of the Infiltration Credit' are provided. Below this, there are tabs for 'Single-Family Homes' and 'Manufactured Housing'. A table with columns 'TITLE', 'SPECIFICATION(S)', and 'OBJECTIVE(S)' is displayed. The first row is '6.6003.1a Hole through interior surface'. A 'Comment' button is circled in orange below the table. The Windows taskbar at the bottom shows the time as 12:57 PM on 5/18/2016.

1. Using the Standard Work Specifications

2. Health & Safety

3. Air Sealing

4. Insulation

5. Heating & Cooling

6. Ventilation

6.60: Exhaust

Components

Fans

Exhaust Ventilation Systems

Appliance Exhaust Vents

Special Considerations

6.61: Supply

6.62: Whole Building Ventilation

6.99: Additional Resources

7. Baseload

### 6.6003.1 Surface-Mounted Ducted

[View](#)

**Topic:** Exhaust

**Subtopic:** Fans

**Desired Outcome:** Surface-mounted ducted fans installed to specification

**Note:** The authority having jurisdiction may require that a licensed professional perform certain tasks outlined in this detail.

For supporting material, see [Referenced Standards](#) and [Calculation of the Infiltration Credit](#).

Single-Family Homes **Manufactured Housing**

☐ Select All [Print](#) [Copy to Excel](#) [Email](#)

	TITLE	SPECIFICATION(S)	OBJECTIVE(S)
<input type="checkbox"/>	6.6003.1a Hole through interior surface	A hole no greater than a 1/4" greater than the assembly will be cut to accommodate fan assembly	Minimize repair work Ensure a secure installation

[Comment](#)

# DOE Policy Updates – SWS

## SWS (Combustion Safety) Updates:

- Health & Safety Committee reviewed 38 comments specific to Section 2.02 – Combustion Safety on Tuesday, August 8<sup>th</sup>, 2015.
  - Reviewed comments received prior to July 1<sup>st</sup>, 2015.
  - Additionally, examined the entire Combustion Safety section en bloc.
- SWS now aligns with BPI 1200.
- New documents on SWS Maintenance Page.
  - Comment spreadsheet with adjudicated comments.
  - Static Redline (PDF) with track-changes.
  - Static Redline (PDF) without track-changes.

# DOE Policy Updates – SWS

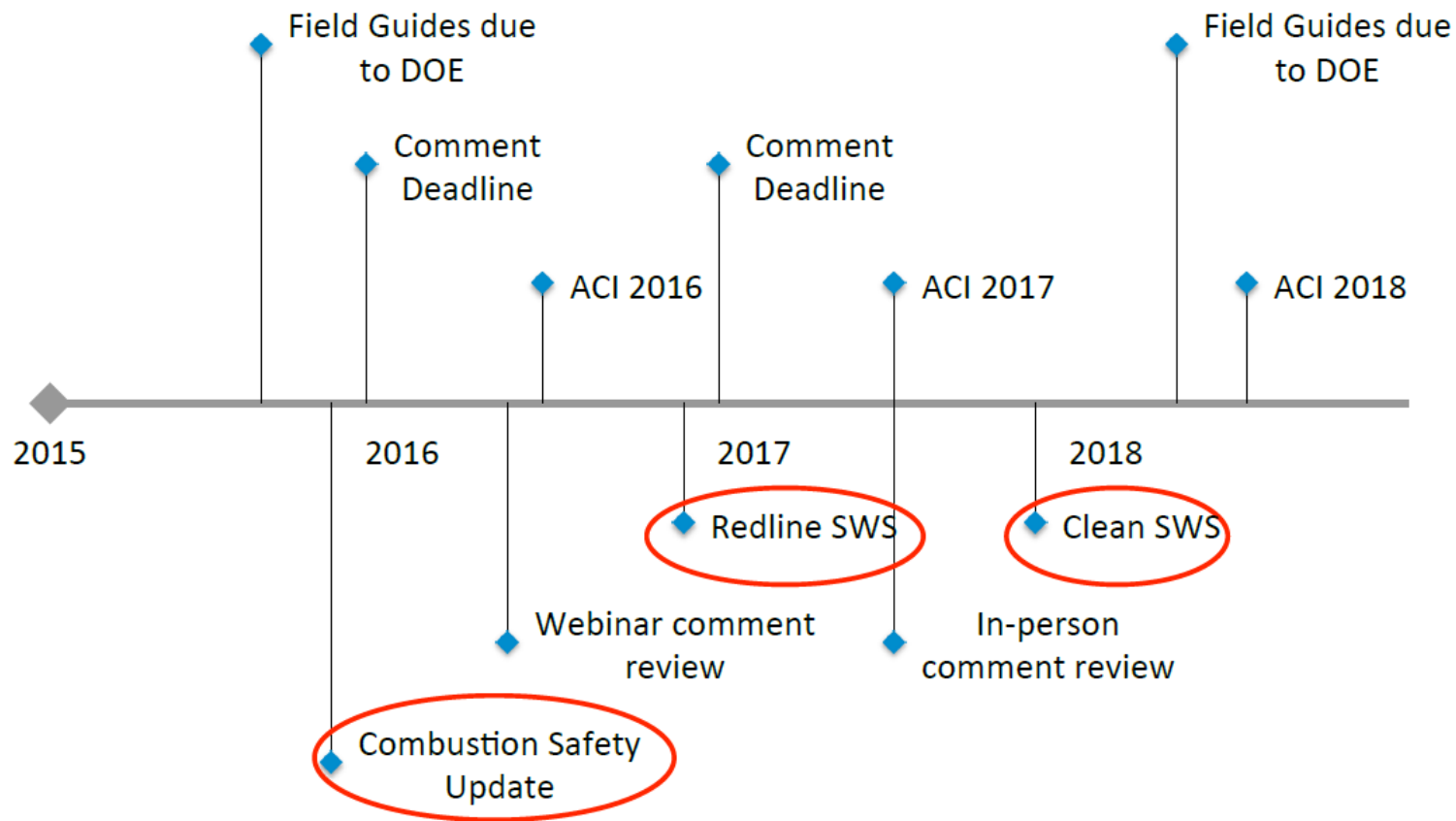
## SWS (Combustion Safety) Updates:

- Updates are documented for future integration in the SWS.
  - Redline documents are available for users looking for the most current industry standards.
- SWS Online Tool and dependent field guides will not be changed at this time.
- WAP grantees are not required to revise their field guides in accordance with these redline documents until 2018.

# DOE Policy Updates – SWS

## SWS (3-Year Maintenance Plan):

### Proposed Timeline



## SWS (FY16 Maintenance Plan):

- NREL will coordinate the review of 94 comments currently awaiting adjudication.
  - Perform initial review.
  - SWS committee members will adjudicate comments and propose new language.
- Documents to be created this year.
  - Comment spreadsheet with adjudicated comments.
  - Redline version of SWS (PDF).

# DOE Policy Updates – SWS

## SWS (FY16 Maintenance Plan):

- SWS Online Tool and dependent field guides will not be changed at this time.
  - All Redline changes will be incorporated into a clean version (PDF), available in 2017.
- This clean version document will be used to update the SWS Online Tool by end of 2017.
  - Changes to SWS Online Tool will be final before the next round of Field Guides are due to DOE.

# DOE Policy Updates – MulTEA

## MulTEA Updates:

- Has been deemed *technically capable* for use in WAP.
  - For residential buildings of any size containing individually heated/cooled units
  - Doesn't handle central HVAC or evaluate ventilation requirements.
- It *works* but there are still some *usability issues* being addressed.
- A user's guide will be developed by ORNL.
- ORNL will be providing training (timeline not yet established).
- H&S Audit Tool is incorporated into MulTEA.



# DOE Policy Updates – Looking Forward

---

## DOE WAP – Looking Forward:

- The funding for WAP seems solid based on recent congressional action.
- Will continue to focus on work quality and management competency in the coming years.
- Will continue to project WAP as highly functional and beneficial to the American taxpayers.

# Summary

---

- Better understanding of current and pending H&S guidance.
- Saw how several Grantees are leveraging non-DOE resources.
- DOE update on WAP Leadership.
- Updates on SWS and how to sign up to provide comments.
- Updates on MulTEA and the H&S audit tool.
- A glimpse of the future from DOE's perspective.

# Question and Answers

